

Amendment to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently amended) A plurality of polynucleotides encoding a Fab library, the library comprising a plurality of vectors wherein a each vector comprises:

- a first and second cloning region, wherein
 - each cloning region comprises at least one, for the vector unique, restriction enzyme cleavage site,
 - each cloning region being 5' flanked by a ribosome binding site and a signal sequence,
- a polynucleotide encoding an anchor region, located 3' of the second cloning region,
- a member of a first and a second plurality of variable polynucleotides, said plurality of variable polynucleotides encoding a first plurality of polypeptides
- a member of a second plurality of variable polynucleotides, said plurality of variable polynucleotides encoding a second plurality of polypeptides,
 - each encoding a the polypeptides of each of said first and second pluralities being selected from the group consisting of a complete antibody variable region, a complete antibody variable region followed by a complete antibody constant region, a complete antibody variable

region followed by a part of an antibody constant region, a- or part of an antibody variable region, a part of an antibody variable region possibly followed by a complete antibody constant region or a part of an antibody variable region followed by a part of an antibody constant region,

- the member of the first plurality of variable polynucleotides being ~~cloned into the vector at the restriction enzyme cleavage site(s) of~~ located in the first cloning region,

- the member of the second plurality of variable polynucleotides being ~~cloned into the vector at the restriction enzyme cleavage site(s) of~~ located in the second cloning region, and

- a polynucleotide encoding a tag.

2. (Previously presented) The plurality of polynucleotides according to claim 1, wherein the first plurality of variable polynucleotides are V_L polynucleotides, and the second plurality of variable polynucleotides are V_H polynucleotides.

3. (Currently amended) The plurality of polynucleotides according to any one of the preceding claims, wherein the plurality of polynucleotides encode a Fab library of at least 10^9 different Fabs.

4-10. (Cancelled).

11. (Currently amended) A vector comprising ~~the polynucleotides of claims 1 or 2.~~ a first and second cloning region, wherein

- each cloning region comprises at least one, for the vector unique, restriction enzyme cleavage site,

- each cloning region being 5' flanked by a ribosome binding site and a signal sequence,
- a polynucleotide encoding an anchor region, located 3' of the second cloning region,
- a member of a first plurality of variable polynucleotides, said plurality of variable polynucleotides encoding a first plurality of polypeptides
- a member of a second plurality of variable polynucleotides, said plurality of variable polynucleotides encoding a second plurality of polypeptides,
- the polypeptides of each of said first and second pluralities being selected from the group consisting of a complete antibody variable region, a complete antibody variable region followed by a complete antibody constant region, a complete antibody variable region followed by a part of an antibody constant region, a part of an antibody variable region, a part of an antibody variable region followed by a complete antibody constant region or a part of an antibody variable region followed by a part of an antibody constant region,
- the member of the first plurality of variable polynucleotides being located in the first cloning region,
- the member of the second plurality of variable polynucleotides being located in the second cloning region, and
- a polynucleotide encoding a tag.

12. (Currently amended) ~~A~~The vector according to claim 11, comprising polynucleotides according to claims 1 or 2, wherein the first plurality of variable polynucleotides are V_L polynucleotides, and the second plurality of variable polynucleotides are V_H polynucleotides~~the polynucleotides encode at least 10⁹ different Fabs.~~

13-14. (Cancelled).

15. (Currently amended) The plurality of polynucleotides according to claim 3, Polynucleotides according to claims 1 or 2, wherein the polynucleotides encode a Fab library of at least 10¹⁰ different Fabs.

16. (Currently amended) The plurality of polynucleotides according to claim 15, Polynucleotides according to claims 1 or 2, wherein the polynucleotides encode a Fab library of at least 3.7 x 10¹⁰ different Fabs.